



**ELEVATION OF UNASSEMBLED DIAPHRAGM**  
NOT TO SCALE

**FABRICATION TABLE FOR C.M. DIAPHRAGM**

PIPE DIA.	GAGE *	GAGE **	NOMINAL DIAPHRAGM SIZE	FABRICATION DIMENSIONS	
				W(WIDTH)	H(HEIGHT)
8	16	—	58x58	58½	30½
10	16	—	58x58	58½	30½
12	16	14	60x60	64	32½
15	16	14	63x63	68	34
18	16	14	66x66	69½	35½
21	16	14	69x69	72	37
24	14	14	72x72	72	38½
30	14	14	78x78	82½	41½
36	—	14	84x84	88	44½
42	—	14	90x90	93	47½
48	—	14	96x96	96	50½
54	—	14	102x102	101¼	53½

\* MINIMUM GAGE FOR "LIVESTOCK WATER TANKS" AND OTHER DAMS NOT OVER 10 FEET HIGH.

\*\* MINIMUM GAGE FOR ALL OTHER DAMS — 12" DIA. SMALLEST SIZE ALLOWED.

### NOTES

- CORRUGATED STEEL PIPE SHALL CONFORM TO THE REQUIREMENTS OF CONSTRUCTION SPECIFICATION 51, CORRUGATED METAL PIPE CONDUITS.
- UNASSEMBLED DIAPHRAGMS SHALL BE MARKED BY PAINTING OR TAGGING TO IDENTIFY MATCHING PAIRS.
- THE LAP BETWEEN THE TWO HALF SECTIONS AND BETWEEN THE PIPE AND CONNECTING BAND SHALL BE CAULKED WITH ASPHALT MASTIC AT TIME OF INSTALLATION.
- WELDING MAY BE SUBSTITUTED FOR RIVETS IN FASTENING 2"x2"x $\frac{3}{16}$  ANGLES TO PIPE. WELDS MUST BE ON EACH SIDE OF ANGLES AND ON EACH CORRUGATION RIDGE IN CONTACT WITH ANGLE.
- D = OUTSIDE DIAMETER OF W.S. PIPE OR NOMINAL DIAMETER OF C.M. PIPE.
- ALL CORRUGATED METAL PIPE DIAPHRAGMS SHALL BE ASPHALT COATED AFTER SHOP FABRICATION HAS BEEN PERFORMED.
- STANDARDIZED DESIGNS — MUST BE ADAPTED TO THE SPECIFIC SITE.
- THE STRUCTURE SHALL CONFORM TO ENGINEERING STANDARD AND SPECIFICATIONS 378, POND, WHEN APPROPRIATE.



**NRCS**

Natural Resources Conservation Service  
United States Department of Agriculture

### DETAILS OF CORRUGATED METAL DIAPHRAGM

(REVISED 05-10 — REPLACES 7-N-17858)

Date 4-65  
Designed CRH  
Drawn DDD 5-10  
Checked  
Approved J.E. ANDREWS 5-10  
S.C.E.

File Name  
Drawing Name  
CO-SSP-41  
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